Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Canceled)
- 2. (Canceled)
- 3. (Currently Amended) An optical positional deviation detecting apparatus according to claim 1, An optical positional deviation detecting apparatus for optically detecting a positional deviation in alignment between a first mark and a second mark of a measurement mark configured by forming the second mark on the first mark, comprising: an irradiation optical system for irradiating the measurement mark with a beam of irradiation; an image forming optical system for forming an image of the measurement mark by converging reflected beam from the measurement mark; an imaging device for capturing the image of the measurement mark, which has been formed by said image forming optical system; an image processing device for measuring the positional deviation in alignment between the first mark and the second mark by processing an image signal obtained by said imaging device; a field stop provided on said irradiation optical system; and an image field position adjustment mechanism for adjusting a position of said field stop, in a plane perpendicular to the optical axis, while maintaining a size of the image field fixed; ____wherein said image field position adjustment mechanism adjusts the image field position on the basis of an asymmetric focus characteristic of the line and space mark pattern

image obtained when forming the image of the line and space mark pattern within the image field area of said imaging device.

- 4. (Currently Amended) An optical positional deviation detecting apparatus according to claim 3, wherein said image field position adjustment mechanism adjusts the image field position so that the asymmetric focus characteristic of the line and space mark pattern image obtained when forming the image of the line and space mark pattern within the image field area of said imaging device, exhibits a characteristic that is symmetric with respect to the axis which passes through the center of the visual field-and-which is perpendicular to a direction in which the positional deviation is detected.
- 5. (Currently Amended) An optical positional deviation detecting apparatus

 according to claim 2, An optical positional deviation detecting apparatus for optically

 detecting a positional deviation in alignment between a first mark and a second mark of a

 measurement mark configured by forming the second mark on the first mark, comprising:

 an irradiation optical system for irradiating the measurement mark with a beam

 of irradiation;

 an image forming optical system for forming an image of the measurement

 mark by converging reflected beam from the measurement mark;

 an imaging device for capturing the image of the measurement mark, which has

 been formed by said image forming optical system;

 an image processing device for measuring the positional deviation in alignment

 between the first mark and the second mark by processing an image signal obtained by said

 imaging device;

 a field stop provided on said irradiation optical system; and

an image field position adjustment mechanism for adjusting a position of said field stop, in a plane perpendicular to the optical axis, while maintaining a size of the image field fixed;

wherein said image field position adjustment mechanism further comprises an imaging device position adjustment mechanism and adjusts the position of said imaging device in accordance with the field stop positional adjustment effected by said field stop adjustment mechanism; and

wherein said image field position adjustment mechanism adjusts the image-field stop position on the basis of the asymmetric focus characteristic eurve-of the line and space mark pattern image at the time when obtained when forming the image of the line and space mark image is formed within the image field area of said imaging device.

- 6. (Currently Amended) An optical positional deviation detecting apparatus according to claim 3, wherein said image field position is so adjusted that the focus characteristic on a signal intensity difference at a stepped position on both sides of each line mark or each space mark of at least a set of the line marks or space marks which are symmetric with respect to the center of the image field, among the line marks of said line and space mark, may have has a characteristic which is symmetric with respect to the axis which passes through the center of the visual field and which is perpendicular to a direction in which the positional deviation is detected.
- 7. (Currently Amended) An optical positional deviation detecting apparatus according to claim 3, wherein said image field position adjustment mechanism adjusts said image field position so that,

at least one set of pattern areas which are symmetric with respect to the center of the image field, is selected;

then the focus characteristic curve of a value Q represented by the below formula (1) for each pattern area:

$$Q = 1/n \times \Sigma (\Delta I/I)$$
 (1),

where n is the number of lines (spaces) in the selected pattern area;

I is the signal intensity at the non-stepped portion of the pattern or the area therearound;

 ΔI is a difference of signal intensity at both sides of the stepped portion in each line (or space) within the selected pattern area, is obtained; and then

the focus characteristic curve <u>may beis</u> symmetric with respect to the axis which passes through the center of said image field—and which is perpendicular to a detecting direction of said positional deviation in alignment.

8 (Currently Amended) An optical positional deviation detecting apparatus
according to claim 1, An optical positional deviation detecting apparatus for optically
detecting a positional deviation in alignment between a first mark and a second mark of a
measurement mark configured by forming the second mark on the first mark, comprising:
an irradiation optical system for irradiating the measurement mark with a beam
of irradiation;
an image forming optical system for forming an image of the measurement
mark by converging reflected beam from the measurement mark;
an imaging device for capturing the image of the measurement mark, which has
been formed by said image forming optical system;
an image processing device for measuring the positional deviation in alignment
between the first mark and the second mark by processing an image signal obtained by said
imaging device;
a field stop provided on said irradiation optical system; and

an image field position adjustment mechanism for adjusting a position of said field stop, in a plane perpendicular to the optical axis, while maintaining a size of the image field fixed;

_______ wherein said image field position is so adjusted that at least one set of areas which are symmetric with respect to the center of the image field is selected and an amount of rotationally asymmetric aberration for every selected area may be symmetric, in a predetermined focal area in which a focused area is included, with respect to the axis which passes through the center of said image field and which is perpendicular to a detecting direction of said positional deviation in alignment.

9. (Currently Amended) An optical adjustment method of an optical positional deviation detecting apparatus for optically detecting a positional deviation in alignment between a first mark and a second mark of a measurement mark configured by forming the second mark on the first mark, comprising:

an irradiation optical system for irradiating the measurement mark with a beam of irradiation;

an image forming optical system for forming an image of the measurement mark by converging reflected beam from the measurement mark;

an imaging device for capturing the image of the measurement mark, which has been formed by said image forming optical system; and

an image field position adjustment mechanism for adjusting, in a plane perpendicular to the optical axis, a position of an image field for capturing the image of the measurement mark by said imaging device with maintaining a size of the image field fixed, comprising:

a first adjustment step in which the aperture stop of said irradiation optical system and the aperture stop of said imaging optical system are so adjusted that the focus

characteristic having the value of Q as defined in claim 7 relating to said line and space mark in the entirely entirety thereof at the time when the line and space mark image is formed within the image field of said imaging field, may be zero;

a second adjustment step in which a position of the field stop of the irradiation optical system is adjusted on the basis of an asymmetric focus characteristic curve of said line and space mark image; and

a third adjustment step in which the position of said imaging device is adjusted for the image field position adjusted in said second step.